



INTERNAL CORRESPONDENCE

RECEIVED

JUN 11 1965

INDUSTRIAL MEDICINE &
TOXICOLOGY DEPARTMENT

OLEFINS DIVISION

137 - 47th STREET, P O BOX 596, NIAGARA FALLS, NEW YORK 14302

To (Name) Mr. G. G. Borden
Company UCC Mining and Metals Division
Location P. O. Box 179
Marietta, Ohio

Date June 10, 1965

Originating Dept

Answering letter date

Copy to Messrs. F. L. Evans
R. L. Folkman
B. J. Haley
L. J. LaFrance
S. Pishko

Subject Exemption Burial

Dear Mr. Borden:

Attached is a copy of an amendment to our license to process radioactive ores which covers the thorium bearing ore.

Mr. LaFrance was here June 9th while three experimental heats were made.

Very truly yours,

A H. Soeder/W
Attachment

UCCNHT0003797

STATE OF NEW YORK
RADIOACTIVE MATERIALS LICENSE

Page 1 of 1 Pages

Pursuant to the Labor Law and Industrial Code Rule No. 38, and in reliance on statements and representations heretofore made by the licensee designated below, a license is hereby issued authorizing such licensee to transfer, receive, possess and use the radioactive material(s) designated below, and to use such radioactive materials for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations, and orders now or hereafter in effect of all appropriate regulatory agencies and to any conditions specified below.

AMENDMENT No. 1

Licensee		3. License number
1. Name Olifins and Metals Division		950-0139
2. Address Union Carbide Corporation P. O. Box No. 580 Niagara Falls, N. Y.		4. Expiration date Valid until terminated
		5. Reference number 1
6. Radioactive materials (element and mass number)	7. Chemical and/or physical form	8. Maximum quantity licensee may possess at any one time
2. Thorium	2. Contaminant in pyrochlor ore and slag consisting mainly of oxides of aluminum, calcium, and magnesium.	2. 625 pounds (31 millicuries)

CONDITIONS

9. Authorized use (Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.)

1. Storage pending disposal through licensed or authorized recipient.
2. As component of ore in pilot-plant processing and smelting, and of slag in storage pending disposal through licensed or authorized recipients.
1202. Letters dated December 23, 1964 and March 26, 1965, signed by R.L. Folkman.

FOR THE NEW YORK STATE DEPARTMENT OF LABOR

Date June 3, 1965

by Robert E. Swencicki, M.D.

Robert E. Swencicki, M.D.

Chief, Radiological Health Unit

For: Morris Kleinfeld, M.D., Director, DIH

GENERAL MAIL - SCHEDULE

MAILING DIVISION

107 4TH STREET, P. O. BOX 516 MARIETTA, OHIO 43027

(Name) Mr. G. G. Borden
Company UCC Mining and Metals Division
Address P.O. Box 179
Marietta, Ohio

Date June 4, 1965

Origin 100-10

Attn: General

Copy to Messrs. F. L. Evans
R. L. Folkman
B. J. Haley
S. Pishko
J. H. Smallridge
A. H. Soeder
W. T. Taylor

Subject Exemption Burial

47

Dear Mr. Borden:

Attached is a copy of a permit from the New York State Health Department for the disposal of radioactive slugs. We believe we should make immediate plans to dispose of the 250 tons of Uranium Bearing Slag now on hand as well as that which will be generated next week when we process the Thorium Bearing Slag.

We also feel this cost should be chargeable to the Works Manager's Department and will proceed with processing a request for a special order. I am not sure whether any other Corporation departments should be notified since we will be putting restriction on the sale of the land in the future and will leave this in your capable hands.

Very truly yours,

A. H. Soeder

A. H. Soeder/W
Attachment

UCCNHT0003799



HOLLIS S. INGRAHAM, M.D.
COMMISSIONER

STATE OF NEW YORK
DEPARTMENT OF HEALTH

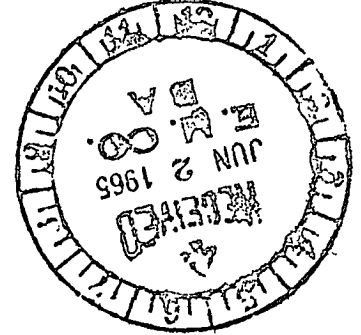
84 HOLLAND AVENUE
ALBANY, NEW YORK 12208

May 28, 1965

DIVISION OF
ENVIRONMENTAL HEALTH SERVICES

MEREDITH H. THOMPSON, D. ENG.
ASSISTANT COMMISSIONER

BUREAU OF
RADIOLOGICAL HEALTH SERVICES
SHERWOOD DAVIES, B.C.E., M.P.H.
DIRECTOR



Mr. A. H. Soeder
Superintendent, Operations
Union Carbide Corporation
P. O. Box 596
137-47 Street
Niagara Falls, New York

Reference: Exemption Burial

Dear Mr. Soeder:

We have carefully reviewed your letter of request, dated April 8, 1965, together with a submittal entitled, "Answers to Health Department Checklist Questions" as they relate to the burial of slag material containing uranium oxide (U_3O_8) and thorium oxide (ThO_2). According to this information, you propose to immediately bury approximately 1250 pounds of uranium oxide contained in 250 tons of slag. A second burial is proposed to be made of slag containing approximately 625 pounds of thorium oxide in 50,000 pounds of slag. In the future, it is proposed to bury 100,000 pounds per month of slag containing about 1250 pounds of thorium oxide. The site of the burial grounds covers an area of 540 feet by 1500 feet, located just North of Pine Avenue Boulevard, between Packard Road and 64th Street in the city of Niagara Falls, Niagara County, New York.

An exemption to the provisions of Section 16.8 of Part 16 of the State Sanitary Code, is hereby granted with respect to the total quantity of radioactive material that may be buried at any one time, in any one location and with respect to the frequency of burials. This exemption is granted on the condition that Union Carbide inform the Niagara County Department of Health of certain information including the amount of radioactive materials, the location of burial, and the content of radioactivity in the materials. Further, permanent markers shall be established locating the boundaries of the burial site.

If it becomes the intent of the company to sell the property on which the site is located, it will be necessary to meet the

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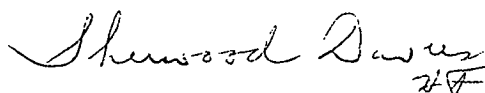
May 28, 1965

requirements of Section 16.10, paragraph B. This section requires that a survey be made before the property is turned over to the new owner. A copy of the report of the survey shall be provided this Department, the local health officer having jurisdiction and the subsequent tenant.

Prior to negotiation of a contract for sale, lease or other transfer of any parcel of property designated as a disposal area and exempted from the provision of Section 16.8 of the Sanitary Code of the State of New York (10 NYCRR 16.8), the Corporation shall file in the office of the clerk of the County of Niagara in the Book of Covenants, Restrictions, Trusts and Forms, a form stating the period during which burials of radioactive waste have occurred together with the total amount of each radioisotope buried as waste.

Based upon this Department's findings, this burial operation can safely be maintained without causing an undue health hazard.

Very truly yours,

A handwritten signature in cursive script that reads "Sherwood Davies". To the right of the signature is a small, stylized monogram or set of initials.

Sherwood Davies, P.E.
Director, Bureau of
Radiological Health Services

UCCNHT0003801